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## CENTRAL INTELLIGENCE AGENCY

## INFORMATION REPORT

(NOTE: Washington distribution indicated by "X"; Field distribution by "#".)

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|           | CONF                                                                                                                                                                                                                                                                                                                                                                     | IDENTIAL ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                   |                           |
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| COUNTRY   | USSR (Leningrad Oblast)                                                                                                                                                                                                                                                                                                                                                  | REPORT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                   |                           |
| SUBJECT   | Guided Missile Development and I                                                                                                                                                                                                                                                                                                                                         | ocation DATE DI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | STR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 24 Sept                                           | <br>ember 1954            |
|           | of NII 49                                                                                                                                                                                                                                                                                                                                                                | NO. OF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PAGES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10                                                | 25X1                      |
| DATE OF I | NFO.                                                                                                                                                                                                                                                                                                                                                                     | REQUIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MENT NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RD                                                |                           |
| PLACE ACC | QUIRED                                                                                                                                                                                                                                                                                                                                                                   | REFEREN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |                           |
|           | This is UNEVALUATED                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                   |                           |
|           | THE SOURCE EVALUATIONS IN THIS THE APPRAISAL OF CONTE                                                                                                                                                                                                                                                                                                                    | NT IS TENTATIVE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 342365                                            | 25X1                      |
| 1.        | Scientific Research Tratitute 10 (NTT                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                   |                           |
| 1.0       | Scientific Research Institute 49 (NII and Cospital analya ulits a in Leningrad (see pages 384). Source believed that lab first installed in the two hospital but after the war, to meet the increased reconstruction of the street were converted to office were planned. Some believed that, single production, it would remain a research duce experimental equipment. | sketch of location of location and reserved in the second control of the second control of the second control of location of l | on and buster equivates the stress lable built and ot equipped to be a sure of the stress of the sure | ilding on pment were et; ldings south new buildin |                           |
| 2.        | The institute was subordinate to the Mi Charin (fnu) was first director and Dud organization chart and legend on pages by source it 2,000 persons: about 33 ne                                                                                                                                                                                                           | provskiy (fnu) w<br>7-9). The enti<br>ercent were wome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | as chief<br>re work fo<br>n.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | engineer (se                                      | e<br><b>Imated</b><br>25X |
|           | administrative and laboratory personnel in one eight-hour shift.                                                                                                                                                                                                                                                                                                         | , both male and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | female.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Work was don                                      | ne                        |
| 3.        |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                   | 25X1                      |
|           | Berlin-Koepenick in October 1946. The cat NII 49. It was anticipated that the end of the war would be reached. Muther the unit.                                                                                                                                                                                                                                          | opying of the c<br>degree of deve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | omputer u                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | nit was initi                                     | a lar                     |
| i.        | An essential development was the comput unit, a further development of the form                                                                                                                                                                                                                                                                                          | er for guidance<br>er German Paral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | into line<br>lax type o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | of sight.                                         | This<br>to                |
|           | CONFID                                                                                                                                                                                                                                                                                                                                                                   | ENTIAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                   | 25X1                      |
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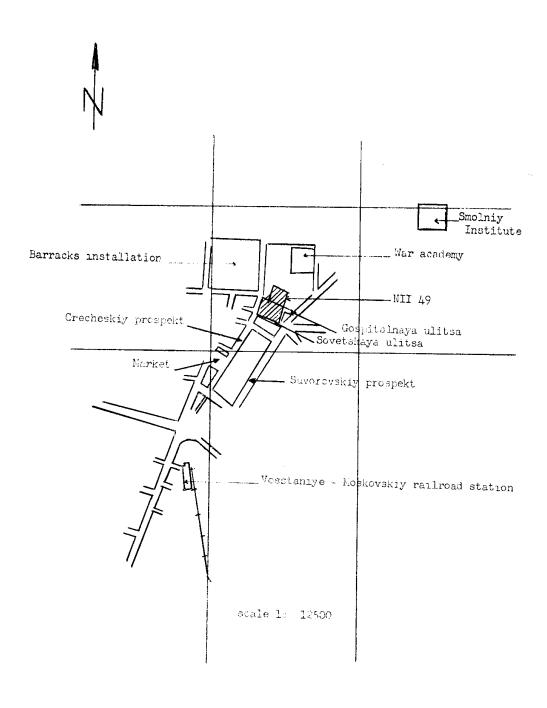
|       | -2-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|       | control the angle of elevation of the Wasserfall rocket at any given period, entirely independent of the angular height of the target. This new system was based on Cartesian coordinates.  his project was given priority and was already initiated by January 1947. Except for several interruptions by the Soviets for experiments, the project continued until October 1951. At the same time the computer was adjusted to Soviet structural members and tubes.                                                                                                                                                                                                                                                                                                                        | 25X1<br>25X1 |
| 5.    | Testing and control instruments developed for the Wasserfall included, among others, a curve drawing recorder designed in several versions. In about 1949, the Soviets ordered Engineer Langenbach, to develop and construct a training set for guide control operators to check the fixed guide figures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 25X1         |
| 6.    | The computer for the Schmetterling antiaircraft rocket was redeveloped by the GEMA Plant and had been accepted by a Soviet control office in fell 1946. In 1947, the Soviets ordered a new testing program to be absolved (sic) at NII 49. Simultaneously, Soviet engineers were to be familiarized with the set. This program was completed within a few weeks in 1947. The project was not resumed before late 1952. By ordering the one computer available newly adjusted, the Soviets gave their engineers a chance to familiarize themselves with the unit, apparently because they had failed to operate the computer correctly. In late December, some German experts observed these boylet engineers in town wearing officer uniforms.  Engineer Wolter in charge of this project. | 25X1<br>25X1 |
| 7.    | Damping of the impulses was effected by quadripoles without tachometer unit. The gyroscopic computer for the 7-angle was developed by Engineer Nuernberg (fnu)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 25X1         |
| 8. [  | development of a lead computer for the Rheintochter antiaircraft recket. Work was started in October 1947 and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 25X1         |
|       | ended in June 1948 with the construction of one set fitted with Soviet parts. The Soviets, after great initial interest in the project, dropped it after its completion although the performance of the instrument was still inadequate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 25X1         |
| 9.    | Other activities at the institute included the development and construction of a computer for quadratic equations. Engineer Nuernberg worked on improvements of the stabilized V-2 launching platform, a project which was                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25X1         |
|       | referred to at "Sg X" or "Stabipla". A mechanical sine indicator as computer for the automatic direction finder was used as the remote control system of rockets.  Engineer Golmert (fnu) worked on the development and construction of various models of a testing set to demonstrate the so-called Tangle and the effect of the rotating gyroscope on rockets.                                                                                                                                                                                                                                                                                                                                                                                                                           | 25X1         |
| 10.   | Power was received from outside and transformed to 50-cycle direct current as required at the laboratories by at least four transformer stations. Gas was supplied to the laboratories by underground pipelines. Tapping points, connections, etc., were not observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 25X1<br>25X1 |
| 11. [ | in spite of the size of the plant, the number and type of workshops available, the work force, and the construction of a new large plant building, there would be no series production of instruments at NII 49 in the near future. With the installations available, the institute was equipped for the production of models and experimental series of some of the instruments.                                                                                                                                                                                                                                                                                                                                                                                                          | 25X1         |
| [     | developed there.  Klaritskiy (fnu), chief of the computer department, at the beginning of construction work on the new large                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 25X1         |
|       | building in about summer 1952. Klaritskiy said that NII 49 was to become the largest institute of the USSR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 25X1         |

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# Location Sketch of NII 49 in Leningrad



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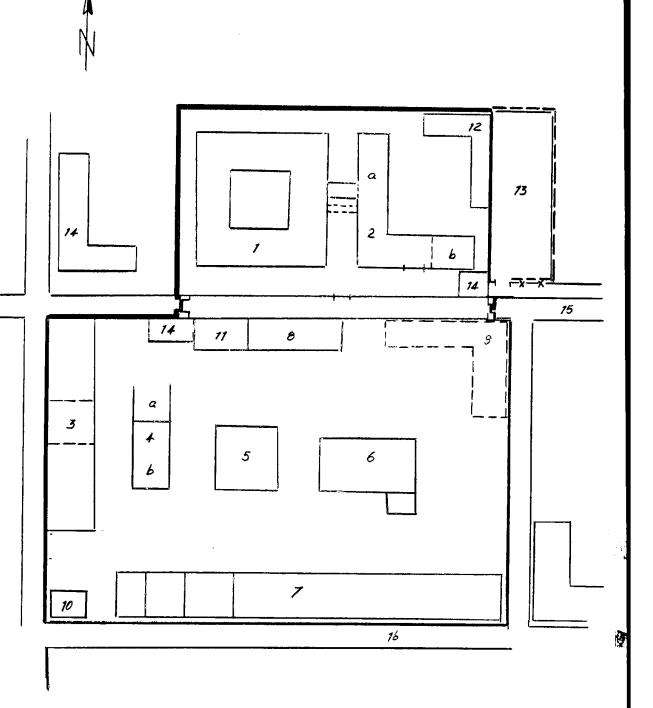
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Sketch of NII 49

(Legend on next page)



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#### Legend to NII 49

1. Plant Management Building — The basement housed dressing rooms in the former excellent air raid shelters which still had the beds of the former hospital immates. The underground connecting passage to Building No. 2 could be sealed with steel doors with rubber packing. The ground floor housed the mess hall for administrative personnel and a stock room for finished instruments.

The second floor housed the offices of first director Charin, of the chief engineer and first manager Dubrovskiy, the LVD personnel office, the office of the business manager, conference rooms, reception rooms of the plant director, and, allegedly, laboratories of Soviet engineers.

- 2. No information was available on the basement or third floor. The first floor housed offices and Soviet workshops and, in two former apartments, laboratories. The second floor housed the entire institute library in the northern wing (a) and until the summer of 1949, the laboratory of source in the east wing (b). Source assumed that the Soviet laboratories worked on the development of radar sets.
- 3. Two-story brick building. The ground floor housed a carpenter shop and a vehicle r pair shop. The second floor, apparently constructed by German FMs after the war, housed the work places of the German experts after the summer of 1949, and the administration of the department for computers and control devices. For details, see sketch on page 6
- 4. Single-story building with planting shop and machine-repair shop.
- 5. Old brick building housing foundry with Soviet personnel.
- 6. Two story building constructed after the war; manufacture of precision parts; a dispensary in the annex. No information was available on the second floor.
- 7. Large production shop with lathes, milling machines, etc., and a stock room for large metal parts. The western section of the building had a second floor and housed a nickel-plating shop. Large metal (sic) processed here was possibly for frames for radar sets or launching platforms and transport devices for rechets.
- 8. Former apartment house with Soviet administrative offices on all three floors.
- 9. Concrete building under construction. By February 1953, the bare structure of the ground floor was completed. The ceiling was very high and source concluded from the iron girders in the outer wall that high machines or cranes would probably be installed. A Soviet construction superintendent stated that one million rubles had been allotted for this construction project.
- 10. Single-story welding shop, an old brick building.
- 11. Paint shop.
- 12. Garages.
- 13. Timber piles.
- 14. Two gate-keeper houses.
- 15. Gospitalnaya ulitsa.
- 16. Sovetskaya ulitsa.

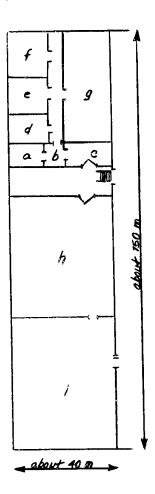
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#### Sketch of Building 3, NII 49

(see preceding sketch)



#### not to scale

### Legend to Building 3, NII 49

- a. Office of Soviet Engineer Klaritskiy
- b. Dressing room
- c. Antechamber
- d. Typing room
- e. Office of German chief, Graduate Engineer Mummert, Laekmaeker, Dr. Kindler, and Dr. Wolff
- f. Designing office of Langenbach and staff
- g. Laboratories, about 15 by 35 meters, of source and other development engineers
- h. Soviet control office
- i. Soviet calculating office, with expension columns

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Tube Development Department

High-Frequency Department

| pproved For Release 2007/08/14 : CIA-RDP80-00810A004600810005-0                                                                    |       |
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| CONTIDE                                                                                                                            | 25X1  |
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| Legend to Table of Organization                                                                                                    |       |
| I Ministry of Shipbuilding Industry in Moscow                                                                                      |       |
| II NII 49                                                                                                                          |       |
| First director: Charin (fnu),                                                                                                      |       |
| Chief engineer Dubroughin (fm)                                                                                                     | 25X1  |
| a Business manager.                                                                                                                |       |
| b Chief, Prsonnel Department: Zhuchkov (fnu).                                                                                      | 25X1  |
| c 1st Department; computers and control systems.                                                                                   | !     |
| Chief: Engineer Zaytsev (fnu)                                                                                                      | 25X1  |
| Deput; chief: Engineer Mitrofanov (fnu)                                                                                            | 25X1  |
| d 2nd Department: No information available.                                                                                        | 25/1  |
| Chief: Engineer Sladkin (fnu).                                                                                                     | 25X1  |
| III The German Organization                                                                                                        | 20/(1 |
| a <u>German staff</u>                                                                                                              | 25X1  |
| Chief: Graduate Engineer Nummant                                                                                                   |       |
|                                                                                                                                    |       |
| Assistant: Engineer Lackansekan (12 12-1368)                                                                                       | 25X1  |
| Dr. Boegel (fnu)                                                                                                                   | 25X1  |
| Dr. Boegel's secretary, Mrs. Biblecke, nee Schoenhoff, was replaced by Mrs. Endert (fnu), Engineer Endert's mother, in about 1950. |       |
| b Soviet staff                                                                                                                     | 25X1  |
| Engineer Klaritskiy (fnu)                                                                                                          | 25X1  |
| Engineer Kats (fnu).                                                                                                               |       |
| Mrs. Churina (fnu)                                                                                                                 | 25X1  |
| c <u>Laboratory</u>                                                                                                                |       |
| Chief: Dr. Kindler.                                                                                                                | 25X1  |
| onici. Di Amiliar.                                                                                                                 |       |
| Engineer Bielecke,                                                                                                                 | 25X1  |
|                                                                                                                                    | 25X1  |
| Engineer Woltei.                                                                                                                   |       |
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| Eng  | gineer Hessler,                           |                                                                                                 | L                       | 25       |
|      |                                           |                                                                                                 |                         | 25       |
| Eng  | gineer Nuernber                           |                                                                                                 | <u> </u>                | 25<br>25 |
|      |                                           |                                                                                                 |                         |          |
| Eng  | gineer Golmer                             |                                                                                                 |                         | 25<br>25 |
| Eng  | gineer Adler.                             |                                                                                                 |                         | 25<br>25 |
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| Eng  | gineer Bacher,                            |                                                                                                 |                         | 2        |
| Eng  | gineer Roth()                             |                                                                                                 |                         | 2:<br>2: |
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| Eng  | gineer Boeh                               |                                                                                                 |                         |          |
|      |                                           |                                                                                                 |                         |          |
| Eng  | gineer Nielbock/                          |                                                                                                 |                         |          |
| Hig  | h-frequency departm                       | nent                                                                                            |                         |          |
| Chi  | lef: Dr. Wolff                            |                                                                                                 |                         |          |
| Eng  | gineer Thoennessen                        |                                                                                                 |                         |          |
|      |                                           |                                                                                                 |                         |          |
|      | e department                              |                                                                                                 |                         |          |
| TII  | rsicist Wild ,                            |                                                                                                 |                         |          |
|      |                                           |                                                                                                 |                         |          |
| repe | eatedly mentioned                         |                                                                                                 | formation was obtained. | 25       |
| not  | determined. Source                        | ese: cond Department under Sove<br>assumed that the department<br>duction of experimental seri- | was in charge of the    |          |

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